

Fig. 1. Comparison of 4 DPD primer/probe sets for their ability to amplify DPD mRNA.

**DPD Gene expression detection using various primer/probe sets in
Formalin Fixed paraffin embedded tissue**

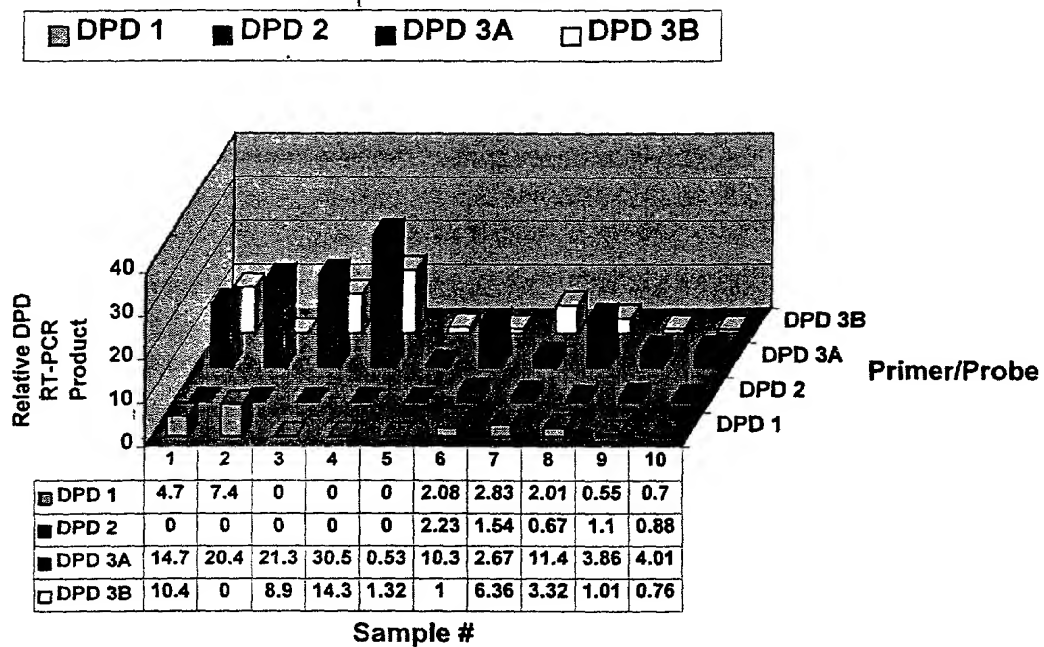


Fig. 2. Comparison of amplification efficiency of primer/probe DPD 3A and DPD 1 to amplify DPD mRNA from frozen tissue.

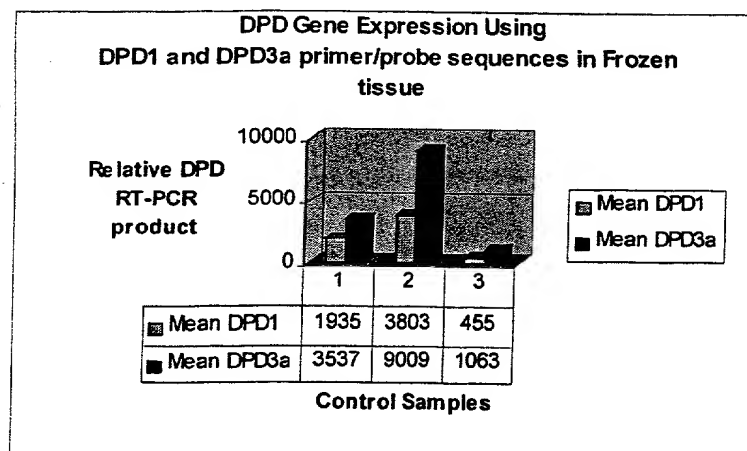


Fig. 3. Chart illustrating how to calculate *DPD* expression relative to an internal control gene.

	Sample	from "test" reaction				from "calibration" reaction				Uncorrected Gene Expression (UGE)	Published <i>DPD</i> values	Derivation of K_{DPD} (average K)	Corrected Relative <i>DPD</i> exp.
		C_T <i>DPD</i>	C_T β -actin	ΔC_T	$2^{-\Delta C_T}$	C_T <i>DPD</i>	C_T β -actin	ΔC_T	$2^{-\Delta C_T}$				
Experimental	unknown 1	25.05	19.84	5.21	0.027	-	-	-	-	4.47	-	1.08×10^3	4.83×10^3
	unknown 2	28.18	18.76	9.42	0.0015	-	-	-	-	0.241	-	1.08×10^3	0.2608×10^3
	Calib RNA	-	-	-	-	26.92	19.55	7.37	0.006	0.006/0.006=1	-	-	1.08×10^3
From Published Data	L7	31.04	24.56	6.49	0.011	-	-	-	-	2.45	2.7×10^3	1.10×10^3	-
	L91	27.95	20.5	7.45	0.0057	-	-	-	-	1.26	1.2×10^3	1.08×10^3	-
	L121	26.88	19.2	7.68	0.00488	-	-	-	-	1.07	1.1×10^3	1.02×10^3	-
	L150	33.32	22.88	10.44	0.00072	-	-	-	-	0.158	0.17×10^3	1.08×10^3	-
	L220	26.96	22.01	4.95	0.03235	-	-	-	-	7.12	7.3×10^3	1.03×10^3	-
	L164	25.44	21.4	4.04	0.0607	-	-	-	-	13.38	16×10^3	1.2×10^3	-
	Calib RNA	-	-	-	-	27.88	20.098	7.782	0.005	0.005/0.005 = 1	-	-	-

Figure 4: Boxplots of relative DPD ($\times 10^{-3}$) expression levels for specimens of each histologic type

